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| APPLICATION NO.                        | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO. |
|--|-------------|----------------------|-------------------------|------------------|
| 09/762,548                             | 02/08/2001  | Takashi Miyazaki     | 9319S-000175            | 5686             |
| 7590 11/03/2004                        |             | EXAMINER             |                         |                  |
| Harness Dickey & Pierce                |             |                      | TON, MINH TOAN T        |                  |
| PO Box 828 Blloomfield Hills, MI 48303 |             |                      | ART UNIT                | PAPER NUMBER     |
|  |             |                      | 2871                    |                  |
|  |             |                      | DATE MAILED: 11/03/2004 |                  |

Please find below and/or attached an Office communication concerning this application or proceeding.

|   |   | Application No.  | Applicant(s)  | ·       |  |  |
|---|---|--|---|---------|--|--|
| Office Action Summary                     |   | 09/762,548   | MIYAZAKI ET AL.   |         |  |  |
|   |   | Examiner   | Art Unit  |         |  |  |
|   | ·   | Toan Ton   | 2871  | _ B     |  |  |
| Period fo                                 | The MAILING DATE of this communication app<br>or Reply  | ears on the cover sheet with the o   | correspondence address  | **      |  |  |
| THE - Exte after - If the - If NC - Failu | ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insigns of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may a reply be tir<br>within the statutory minimum of thirty (30) day<br>will apply and will expire SIX (6) MONTHS from<br>cause the application to become ABANDONE | mely filed ys will be considered timely. In the mailing date of this communic ED (35 U.S.C. § 133). | cation. |  |  |
| Status                                    |   |  |   |         |  |  |
| 1)🛛                                       | Responsive to communication(s) filed on <u>08-12</u>  | <u>2-04</u> .  |   |         |  |  |
| 2a) <u></u> □                             | This action is <b>FINAL</b> . 2b) This action is non-final.   |  |   |         |  |  |
| 3) 🗌                                      | Since this application is in condition for alloward closed in accordance with the practice under E  |  |   | ts is   |  |  |
| Disposit                                  | ion of Claims   |  |   |         |  |  |
| 5)□<br>6)⊠<br>7)□                         | Claim(s) 1-7 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-7 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or  |  |   |         |  |  |
| Applicat                                  | ion Papers  | •  |   |         |  |  |
| 9)  | The specification is objected to by the Examine   | r.   |   |         |  |  |
| 10)                                       | The drawing(s) filed on is/are: a) acce   | epted or b) Objected to by the   | Examiner.   |         |  |  |
|   | Applicant may not request that any objection to the   | drawing(s) be held in abeyance. Se   | e 37 CFR 1.85(a).   |         |  |  |
| 11)                                       | Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Ex  |  |   | ` '     |  |  |
| Priority (                                | ınder 35 U.S.C. § 119   |  | •   |         |  |  |
| a)  | Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority application from the International Bureau  See the attached detailed Office action for a list of   | s have been received. s have been received in Applicat ity documents have been receive (PCT Rule 17.2(a)).   | ion No<br>ed in this National Stage   |         |  |  |
| Attachmen                                 | t(s)  |  |   |         |  |  |
| ·   | e of References Cited (PTO-892)   | 4) Interview Summary Paper No(s)/Mail D  | •   |         |  |  |
| 3) 🔲 Infori                               | e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date  | _ ` ` ` `  | Patent Application (PTO-152)  |         |  |  |

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## Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Prior Art (APA hereinafter) in view of Hida et al (US 593695).

APA discloses a liquid crystal display comprising: liquid crystal sealed between a pair of substrates bonded by a sealing; the sealing section is formed so as to surround liquid crystal with a sealing material and anisotropic conductive material joined to each other.

APA also discloses the anisotropic conductive material used for connecting electrodes of one substrate to the wiring terminals of the other substrate (see page 2, lines 15-19).

The limitation not disclosed by APA is at least one of the pair of substrates provided with alignment mark corresponding to the position of the sealing material or the anisotropic conductive material.

The use alignment mark(s) is common and known for accurately aligning the substrates. Hida discloses a liquid crystal display comprising the substrates provided with alignment marks corresponding to the position of the sealing material. Hida discloses that the use of such alignment marks offers advantages such as improved-efficiency, excellent productivity. Therefore, it would have been obvious to one of ordinary skill in the art to employ alignment

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marks corresponding to the position of the sealing material for accurately aligning the substrates while achieving advantages such as improved-efficiency, excellent productivity

It is noted "alignment mark corresponding to the position of the sealing material" is an obvious variation (i.e., not patentably distinct) to one of ordinary skill in the art to "alignment mark corresponding to the position the anisotropic conductive material".

Hida discloses alignment marks formed various shapes such as crisscross, square, L-shaped. Hida discloses that the shapes are varied so as assuring accurate alignment.

Hida discloses that the distance between the alignment marks varies so as assuring accurate and improved alignment.

It would have been at least obvious to one of ordinary skill in the art to employ alignment marks having a width at most equal (equal or less than) a width of the sealing material and the anisotropic conductive material for minimizing interference with the display elements such as display electrodes, liquid crystal material, etc.

## Response to Arguments

3. Applicant's arguments filed 08/12/04 have been fully considered but they are not persuasive.

Applicant argued that Hida fails to disclose newly added limitation (the terminals of the substrate conductive connected to the electrodes of the other substrate via anisotropic conductive material).

APA (the main reference) discloses the anisotropic conductive material used for connecting electrodes of one substrate to the wiring terminals of the other substrate (see page 2,

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lines 15-19). Hida (the secondary reference) is relied upon the teaching of alignment marks.

The rejection is under 35 USC 103.

## **Contact Information**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan Ton whose telephone number is (571) 272-2303.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

October 29, 2004

TOANTON
PRIMARY EXAMINER